

ROTOR FOR AN AC GENERATOR

ABSTRACT OF THE DISCLOSURE

5 An improved shape for a tooth of a rotor assembly in an AC generator is generally trapezoidal in shape and includes a base, a tip, and leading and trailing edges. The leading edge comprises a first portion, and a second portion. The first portion extends from the tip toward the base, and the second portion extends from the first portion toward the base. The second portion slopes at a first rate that would
10 cover about one slot pitch were it allowed to continue all the way up to the tip. However, the first slope continues only to a transition point. The first portion is generally parallel to the trailing edge of an adjacent, magnetically opposing rotor tooth. The modified tooth presents a wider tooth cross-section.

287574.2